Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A method for directing a network client requesting access to content to one of a plurality of content servers that can provide said content, comprising:

if one or more cost measurements are available that measure operational characteristics of the network based on communication between the network client and one or more of the plurality of content servers, then directing a the network client to a said one of said content servers based on the one or more cost measurements; indicative of operational characteristics of the network.

otherwise, directing the network client to a said one of said content servers using one or more cost measurements that measure operational characteristics of the network based on communication between a client that is physically proximate to the network client and one or more of the plurality of content servers.

2. (Original) A method as recited in claim 1, further comprising:

obtaining a new cost measurement when said network client accesses said content server; and

using said new cost measurement as an indicator of operational characteristics of the network in connection with subsequent requests for access to said content that can be provided by said content server.

3. (Original) A method as recited in claim 1, wherein said content servers are associated with a network server having an identity, and wherein said network client requests content from said network server, and further comprising:

mapping the identity of the network server to said content servers.

- 4. (Original) A method as recited in claim 1, further comprising measuring network performance between said network client and a said one of said content servers.
- 5. (Original) A method as recited in claim 1, wherein an attribute of network performance comprises network latency.
- 6. (Original) A method as recited in claim 5, wherein network latency is measured passively by determining the time between a syn ack message sent by said network client and an ack message sent by one of said content servers.
- 7. (Original) A method as recited in claim 4, further comprising measuring network performance between said network client and another of said content servers.
- 8. (Currently Amended) A method as recited in claim 1, further comprising determining the location of said network client by circular intersection and inferring network performance associated with accessing said content server to said network client based on a performance measurement to said content server in connection with another physically proximate network client.
- 9. (Currently Amended) A method as recited in claim 8, wherein said circular intersection comprises:
- (a) measuring the time that it takes for data to move from a plurality of network server locations to said client;
 - (b) converting said times to distance equivalents;

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- (c) <u>forming determining a plurality of intersecting circles, wherein using said</u> distance equivalents <u>are used</u> as the <u>radius radii</u> of <u>the circles with and said network server locations <u>are used</u> as the centers of the circles; and</u>
- (d) determining the physical location of said network client from the intersection of said circles.
- 10. (Original) A method as recited in claim 1, further comprising inferring network performance of serving said network client from said content server by determining a weighted average of network performance between said content server and other network clients based on physical proximity of said other network clients to said network client and performance of said content server for said other network clients.
 - 11. (Original) A method as recited in claim 1, further comprising:
- (a) measuring network latency between a content server and a plurality of other network clients;
- (b) determining physical distances between said other network clients and said network client;
- (c) computing a weighted average of said latency measurements as a function of said distances, wherein said weighed average comprises an estimate of the latency between said content server and said network client; and
- (d) inferring operational characteristics associated with a plurality of network clients to said network client using said weighted average.

- 12. (Currently Amended) A method for directing a network client requesting access to content from a network server to one of a plurality of content servers that can provide said content, each said content server having an address, said network server having an identity, said method comprising:
- (a) identifying a <u>the</u> network server associated with <u>the</u> content requested by said network client;
- (b) <u>if one or more cost measurements are available that measure operational characteristics of the network based on communication between the network client and one or more of the plurality of content servers, then identifying a said one of said content servers based on said identity of said network server and <u>the</u> one or more cost measurements indicative of operational characteristics of the network;</u>

otherwise, identifying a said one of said content servers based on said identity of said network server and one or more cost measurements that measure operational characteristics of the network based on communication between a client that is physically proximate to the network client and one or more of the plurality of content servers; and

- (c) providing the network client with the address of said content server identified in step (b).
 - 13. (Original) A method as recited in claim 12, further comprising:
- (d) obtaining a new cost measurement when said network client accesses said content server; and
- (e) using said new cost measurement as an indicator of operational characteristics of the network in connection with subsequent requests for access to said content that can be provided by said content server.

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14. (Original) A method as recited in claim 12, further comprising measuring

network performance between said network client and a said one of said content servers.

15. (Original) A method as recited in claim 12, wherein an attribute of network

performance comprises network latency.

16. (Original) A method as recited in claim 15, wherein network latency is

measured passively by determining the time between a syn ack message sent by said

network client and an ack message sent by said one of said content servers.

17. (Original) A method as recited in claim 14, further comprising measuring

network performance between said network client and another of said content servers.

18. (Currently Amended) A method as recited in claim 12, determining the

location of said network client by circular intersection and inferring network performance

associated with accessing said content server to said network client based on a

performance measurement to said content server in connection with another physically

proximate network client.

19. (Currently Amended) A method as recited in claim 18, wherein said

circular intersection comprises:

(a) measuring the time that it takes for data to move from a plurality of

network server locations to said client;

(b) converting said times to distance equivalents;

(c) forming determining a plurality of intersecting circles, wherein using said

distance equivalents are used as the radius radii of the circles with and said network

server locations are used as the centers of the circles; and

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- (d) determining the physical location of said network client from the intersection of said circles.
- 20. (Original) A method as recited in claim 12, further comprising inferring network performance of serving said network client from said content server by determining a weighted average of network performance between said content server and other network clients based on physical proximity of said other network clients to said network client and performance of said content server for said other network clients.
 - 21. (Original) A method as recited in claim 12, further comprising:
- (a) measuring network latency between a content server and a plurality of other network clients;
- (b) determining physical distances between said other network clients and said network client;
- (c) computing a weighted average of said latency measurements as a function of said distances, wherein said weighed average comprises an estimate of the latency between said content server and said network client; and
- (d) inferring operational characteristics associated with a plurality of network clients to said network client using said weighted average.

22. – 31. (Cancelled)

- 32. (Original) A method for inferring operational characteristics associated with a plurality of network clients to an inferable network client, comprising:
- (a) measuring network latency between a network server and a plurality of network clients;

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- (b) determining physical distances between said network clients and an inferable network client; and
- (c) computing a weighted average of said latency measurements as a function of said distances, wherein said weighed average comprises an estimate of the latency between said network server and said inferable network client.
- 33. (Currently Amended) A system for directing a network client requesting access to content to one of a plurality of content servers that can provide said content, comprising:

a programmed data processor; and

programming associated with said programmed data processor for:

determining whether one or more cost measurements are available that measure operational characteristics of the network based on communication between the network client and one or more of the plurality of content servers,

if so, then directing a the network client to a said one of said content servers based on the one or more cost measurements of operational characteristics of the network.

if not, then directing the network client to a said one of said content servers using one or more cost measurements that measure operational characteristics of the network based on communication between a client that is physically proximate to the network client and one or more of the plurality of content servers.

34. (Original) A system as recited in claim 33, further comprising programming associated with said programmed data processor for:

obtaining a new cost measurement when said network client accesses said content server; and

using said new cost measurement as an indicator of operational characteristics of the network in connection with subsequent requests for access to said content that can be provided by said content server.

35. (Original) A system as recited in claim 33, wherein said content servers are associated with a network server having an identity, and wherein said network client. requests content from said network server, and further comprising:

programming associated with said programmed data processor mapping the identity of the network server to said content servers.

- 36. (Original) A system as recited in claim 33, further comprising programming associated with said programmed data processor for measuring network performance between said network client and a said one of said content servers.
- 37. (Original) A system as recited in claim 33, wherein an attribute of network performance comprises network latency.
- 38. (Original) A system as recited in claim 37, wherein network latency is measured passively by determining the time between a syn ack message sent by said network client and an ack message sent by one of said content servers.
- 39. (Original) A system as recited in claim 36, further comprising programming associated with said programmed data processor for measuring network performance between said network client and another of said content servers.
- 40. (Currently Amended) A system as recited in claim 33, further comprising programming associated with said programmed data processor for determining the location of said network client by circular intersection and inferring network performance

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associated with accessing said content server to said network client based on a performance measurement to said content server in connection with another physically proximate network client.

- 41. (Currently Amended) A system as recited in claim 40, wherein said circular intersection comprises:
- (a) measuring the time that it takes for data to move from a plurality of network server locations to said client;
 - (b) converting said times to distance equivalents;
- (c) <u>forming determining a plurality of intersecting circles, wherein using said</u> distance equivalents <u>are used</u> as the <u>radius radii</u> of <u>the circles with and said network server locations are used</u> as the centers of the circles; and
- (d) determining the physical location of said network client from the intersection of said circles.
- 42. (Original) A system as recited in claim 33, further comprising programming associated with said programmed data processor for inferring network performance of serving said network client from said content server by determining a weighted average of network performance between said content server and other network clients based on physical proximity of said other network clients to said network client and performance of said content server for said other network clients.
- 43. (Original) A system as recited in claim 33, further comprising programming associated with said programmed data processor for
- (a) measuring network latency between a content server and a plurality of other network clients;
- (b) determining physical distances between said other network clients and said network client;

- (c) computing a weighted average of said latency measurements as a function of said distances, wherein said weighed average comprises an estimate of the latency between said content server and said network client; and
- (d) inferring operational characteristics associated with a plurality of network clients to said network client using said weighted average.
- 44. (Currently Amended) A system for directing a network client requesting access to content from a network server to one of a plurality of content servers that can provide said content, each said content server having an address, said network server having an identity, said method comprising:
 - (a) a programmed data processor; and
 - (b) programming associated with said programmed data processor for
- (i) identifying a <u>the</u> network server associated with <u>the</u> content requested by said network client;
- (ii) if one or more cost measurements are available that measure operational characteristics of the network based on communication between the network client and one or more of the plurality of content servers, then identifying a said one of said content servers based on said identity of said network server and the one or more cost measurements indicative of operational characteristics of the network; and
- (iii) otherwise, identifying a said one of said content servers based on said identity of said network server and one or more cost measurements that measure operational characteristics of the network based on communication between a client that is physically proximate to the network client and one or more of the plurality of content servers; and
- (c) providing the network client with the address of said content server identified in step (b) (ii).

- 45. (Original) A system as recited in claim 44, further comprising programming associated with said programmed data processor for:
- obtaining a new cost measurement when said network client accesses said content server; and
- using said new cost measurement as an indicator of operational characteristics of the network in connection with subsequent requests for access to said content that can be provided by said content server.
- 46. (Original) A system as recited in claim 44, further comprising programming associated with said programmed data processor for measuring network performance between said network client and a said one of said content servers.
- 47. (Original) A system as recited in claim 46, wherein an attribute of network performance comprises network latency.
- 48. (Original) A system as recited in claim 47, wherein network latency is measured passively by determining the time between a syn ack message sent by said network client and an ack message sent by said one of said content servers.
- 49. (Original) A system as recited in claim 46, further comprising programming associated with said programmed data processor for measuring network performance between said network client and another of said content servers.
- 50. (Currently Amended) A system as recited in claim 44, further comprising programming associated with said programmed data processor for determining the location of said network client by circular intersection and inferring network performance associated with accessing said content server to said network client based on a

performance measurement to said content server in connection with another physically proximate network client.

- 51. (Currently Amended) A system as recited in claim 50, wherein said circular intersection comprises:
- (a) measuring the time that it takes for data to move from a plurality of network server locations to said client;
 - (b) converting said times to distance equivalents;
- (c) <u>forming determining</u> a plurality of intersecting circles, <u>wherein using</u> said distance equivalents <u>are used</u> as the <u>radius radii</u> of <u>the circles with and said network</u> server locations are used as the center of the circles; and
- (d) determining the physical location of said network client from the intersection of said circles.
- 52. (Original) A system as recited in claim 44, further comprising programming associated with said programmed data processor for inferring network performance of serving said network client from said content server by determining a weighted average of network performance between said convent server and other network clients based on physical proximity of said other network clients to said network client and performance of said content server for said other network clients.
- 53. (Original) A system as recited in claim 44, further comprising programming associated with said programmed data processor for:
- (a) measuring network latency between a content server and a plurality of other network clients;
- (b) determining physical distances between said other network clients and said network client;

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- (c) computing a weighted average of said latency measurements as a function of said distances, wherein said weighed average comprises an estimate of the latency between said content server and said network client; and
- (d) inferring operational characteristics associated with a plurality of network clients to said network client using said weighted average.

54. – 63. (Cancelled)

- 64. (Original) A system for inferring operational characteristics associated with a plurality of network clients to an inferable network client, comprising:
 - (a) a programmed data processor; and
 - (b) programming associated with said programmed data processor for
- (i) measuring network latency between a network server and a plurality of network clients;
- (ii) determining physical distances between said network clients and an inferable network client; and
- (iii) computing a weighted average of said latency measurements as a function of said distances, wherein said weighed average comprises an estimate of the latency between said network server and said inferable network client.